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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|-----------------|----------------------|---------------------|------------------|--|
| 10/691,432 | 10/23/2003 | Dotan Sokolov | P-5360-US1 | 2138 | |
| 27130 | 7590 09/16/2005 | | EXAMINER | | |
| EITAN, PEARL, LATZER & COHEN ZEDEK LLP 10 ROCKEFELLER PLAZA, SUITE 1001 NEW YORK, NY 10020 | | | TRAN, | TRAN, KHAI | |
| | | | ART UNIT | PAPER NUMBER | |
| | | | 2637 | | |

DATE MAILED: 09/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) | | | | |
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| | 10/691,432 | SOKOLOV ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | KHAI TRAN | 2637 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONEE. | L. ely filed the mailing date of this communication. O (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 23 Oc | ctober 2003. | | | | | |
| 2a) This action is FINAL . 2b) ☑ This | action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the | | | | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 3 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-47 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 6-23 is/are allowed. 6) Claim(s) 1,3-5,24,26,28,34,35,37-39,41,42,44 and 46 is/are rejected. 7) Claim(s) 2,25,27,29-33,36,40,43,45,47 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the original transfer of the correction is objected to by the Example 11) The oath or declaration is objected to by the Example 11. | epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj | ected to. See 37 CFR 1.121(d). | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of | have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)). | on No d in this National Stage | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/23/03. | 4) Interview Summary (Paper No(s)/Mail Da S) Notice of Informal Pa | | | | | |

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DETAILED ACTION

1. The preliminary amendment filed 10/23/2003 has been entered. Claims 1-47 are pending in this Office action.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1, 3, 4, 5, 24, 26, 28, 34-35, 37, 38, 39, 41, 42, 44, 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (U.S. Pat. 5,216,693) in view of Menk et al (U.S. Pat. 5,251,238).

Regarding claim 1, Nakamura discloses a cellular telephony searcher, comprising: a plurality of correlators for correlating a received signal with a pseudonoise sequence (see Figures 12 shows correlators 52, 53, and Fig. 13(b) discloses PN

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code generator 63 for generating PN code sequence); an input mechanism for inputting the pseudo-noise sequence into the correlators, each of the correlators receiving the pseudo-noise sequence with a different delay (a shift register 64 (or a delay circuit for delaying the PN code sequence). Nakamura also discloses a delay line also called as a shift register 64, but Nakamura fails to disclose a delay management mechanism for initializing the delays and subsequently changing the delays, the changing being contingent, for each the correlator, only on an output of the each correlator.

Menk et al disclose a logic circuit (13, 55, or 73) connected to the correlation output signals for evaluating the correlation output signals and generating a control signal which represents the middle of the eye opening between the digital signal and the synchronized digital from the logic circuit (see Menk et al, claim 1), and the logic circuit 55 for carrying out a correlation of the sampled signals and an evaluation of the correlation results or correlation functions for adjustment of sampling to the center of an eye (col. 6, lines 8-45). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to adjust or change the delay signal based on the result of the correlation as taught by Menk et al into the teachings of Nakamura in order to correlate the adjacent signals with each other (col. 5, line 66 to col. 6, line 25) and obtain an optimal sampling time.

Regarding claims 4-5, Nakamura discloses a pseudo-noise sequence 63; a delay line 64; for each the correlator, an index register (See Fig. 13(b)); a multiplexer (66) for directing one of the copies of the pseudo-noise sequence to each the correlator in accordance with an index value stored in the index register of the each correlator.

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Regarding claim 24, claim 24 is similar to claim 1, and Menk et al further disclose a next location unit (a logic circuit 13 to decide to change at least the first delay of the first correlator based, at least in part, on an output of the first correlator.

Regarding claims 3, 26, Menk et al disclose wherein the next location unit is to decide to change at least the first delay by comparing an estimated absolute value of the output of the fist correlator to a threshold (see Mark et al, claim 1, and col.5, line 66 to col. 6, line 25).

Claim 28 is similar to claims 1, 24. Therefore, claim 28 is rejected under a similar rationale.

Claims 34-35, 37 are similar to claims 1, 24. Nakamura also discloses a spread spectrum communications system. Therefore, a use of mobile station is well known in the spread spectrum communication system for communicating with a base station.

Claims 38, 39, 41 are similar to claims 1, 3, 24, 26, 34. Nakamura further discloses a receiving signal 13(b) transmitted from a transmitter. Therefore, a use of the antenna of a receiver for receiving signal from the transmitter is well known in the spread spectrum communication system.

Claims 42, 44, 46 are similar to claims 24, 26. Therefore, claims 42, 44, 46 are rejected under a similar rationale.

Allowable Subject Matter

5. Claims 6-23 are allowed.

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6. Claims 2, 25, 27, 29-33, 36, 40, 43, 45, 47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter: Nakamura and Menk et al fail to disclose simultaneously performing a plurality of initial correlations of the received signal with the pseudo-noise sequence, each of the initial correlations being performed with a different initial delay of the pseudo-noise for first dwell time to produce, for each of the initial correlations, and initial fist dwell time correlation value; wherein at least one correlator of said at least first and second correlators is able to correlate the received signal within a correlation time selected from a group consisting of a first dwell time, and a sum of the first dwell time and a second dwell time.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wagner et al (U.S. Pat. 5,157,408) disclose a radio system.

Fenton et al (U.S. Pat. 5,495,499) disclose a receiver.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wanguartun KHAI TRAN

Primary Examiner Art Unit 2637

KT September 14, 2005